Ministry of Northern Development and Mines

Ontario

Mines and Minerals Division

GEOLOGICAL DATA INVENTORY FOLIO
GDIF 559

HOWEY TOWNSHIP

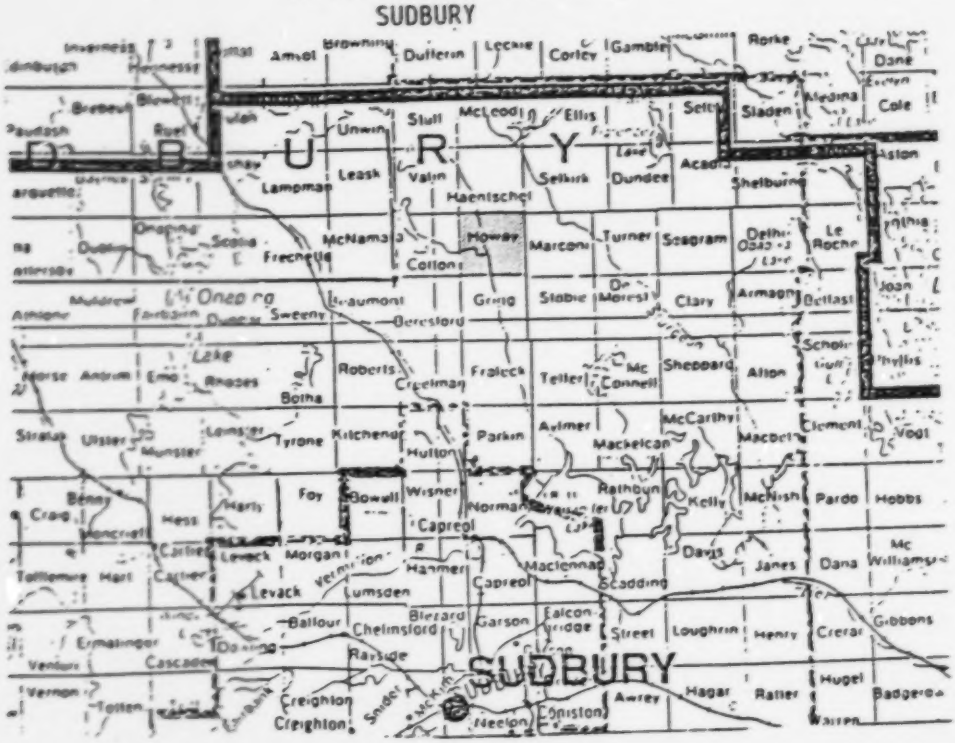
Sudbury Mining Division

41 P/2

Compiled by the staff of

the Resident Geologist's Office

SUDBURY



LOCATION MAP

CANADA ONTARIO
Mineral Development Agreement
Entente sur la mise en valeur minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-04567/

Mining Claim Map Number G.4064

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Howey Township, Geological Data Inventory Folio 559; compiled by the staff of the Resident Geologist's office, Sudbury.

Original Compilation by: Jerome, Lucille, March 1990.

Date	Page(s) Revised	Revised by
*		

Date	Page(s) Revised	Revised by

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ACCOMPANYING MAPS (see map legends on outside back cover).

A. Files Index Map (s) ..... Map A-1

B. Exploration Data Map (s) ..... Map B-1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report

*

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	OGS/ODM General Index	YES	L.J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	NO	L.J.
6	ODM Industrial Mineral Reports	NO	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	N.A.	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	L.J.
9	Newspaper Clippings File	NO	L.J.
10	GSC Index to Publications	NO	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	L.J.
12	OGS Index Maps	YES	L.J.
13	Source Mineral Deposit Records (OGS)	NO	L.J.
14	Author - Subject Articles File	NO	L.J.
15	ODM/OGS Miscellaneous Papers	NO	L.J.
16	ODM Geological Circulars	NO	L.J.
17	OGS Study Series	NO	L.J.
18	ODM Preliminary Reports	NO	L.J.
19	ODM Bulletins	NO	L.J.
20	ODM/OGS Open File Reports	YES	L.J.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	YES	L.J.
22	OGS Aggregate Resources Inventory Papers	NO	L.J.
23	OGS Mineral Potential Maps	YES	L.J.
24	Drill Core Library Catalogue	N.A.	L.J.
25	Theses on File	NO	L.J.
26	Aerial Photographs on File	NO	L.J.
*			

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MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite	gl ..... Gravel	ra ..... Radioactive minerals	ADDITIONS
ank ..... Ankerite	gyp ..... Gypsum	RE ..... Rare Earths	
ap ..... Apatite	hem ..... Hematite	sd ..... Sand	
arg ..... Argentite	Fe ..... Iron	sgl ..... Sand and gravel	
As ..... Arsenic	IF ..... Iron Formation	ss ..... Sandstone	
asp ..... Arsenopyrite	jas ..... Jasper	scap ..... Scapolite	
asb ..... Asbestos	ky ..... Kyanite	shee ..... Scheelite	
ba ..... Barite	Pb ..... Lead	serp ..... Serpentine	
be ..... Beryl	lim ..... Limonite	sh ..... Shale	
Bi ..... Bismuth	Li ..... Lithium	sid ..... Siderite	
bn ..... Bornite	mgst ..... Magnesite	si ..... Silica	
Cd ..... Cadmium	mag ..... Magnetite	Ag ..... Silver	
calc ..... Calcite	mc ..... Malachite	sl ..... Slate	
carb ..... Carbonate	Mn ..... Manganese	sm ..... Smaltite	
cc ..... Chalcocite	mb ..... Marble	sod ..... Sodalite	
cp ..... Chalcopyrite	mar ..... Marcasite	spec ..... Specularite	
ch ..... Chert	ma ..... Marl	sp ..... Sphalerite	
clay ..... Clay	mi ..... Mica	spd ..... Spodumene	
Co ..... Cobalt	mo ..... Molybdenite	s ..... Sulphides	
cob ..... Cobaltite	Mo ..... Molybdenum	talc ..... Talc	
Cu ..... Copper	mon ..... Monazite	Te ..... Tellurium	
cor ..... Corundum	ne .... Nephelite (nepheline)	th ..... Thorite	
dol ..... Dolomite	Ni ..... Nickel	Th ..... Thorium	
ep ..... Epidote	Nb ..... Niobium	ti ..... Titanite	
fel ..... Feldspar	Pd ..... Palladium	Ti ..... Titanium	
fl ..... Fluorite (flurospar)	pent ..... Pentlandite	tour ..... Tourmaline	
fu. ..... Fuchsite	Pt ..... Platinum	W ..... Tungsten	
gn. ..... Galena	py ..... Pyrite	uran ..... Uraninite	
gt. ..... Garnet	pyl ..... Pyrochlore	U ..... Uranium	*
goe ..... Goethite	po ..... Pyrrhotite	verm ..... Vermiculite	
Au ..... Gold	q ..... Quartz	Zn ..... Zinc	
gf ..... Graphite	qcv .. Quartz carbonate vein	zr ..... Zircon	

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES			Source Min. Dep. Record	References in OGS Min. Dep. Cir. and Indus. Mineral Rpts.	Additional References and/or Remarks
Map Ref. Letter	(see Data Map) Name(s)	Mineralization			

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																			
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp		Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data	or footnotes
1	McVittie, J. (Grigg 0013-A1)											77								

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
1	1977: Report written by E.J. Blanchard for J. McVittie	a. Radiometric	200'	East-West	660'

Map Site No.	GEOCHEMICAL SURVEY DATA		By	Reference(s)
	Type of survey	Analysis for		

Map Site No.	GEOCHRONOLOGY DATA — AGE DATING			
	Method	Material	Reference	Result

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist Office

(a) Aerial Photographs

(b) Photomosaics

(c) Satellite Imagery

TOPOGRAPHIC MAPS (selected)			
Scale	Year	Name and/or Number	By
1: 50,000	1975	Pilgrim Creek Sheet, 41 P/2	EMR
1: 100,000	1978	NOEGTS Data Base Map, Maple Mountain, Map 5023, NOEGT Study 89	OGS, Garnter, J. F.

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

BLANCHARD, E.J.
BOWLAND LAKE
HOWEY TOWNSHIP
MCVITTIE, J.
WANAPITEI RIVER

Index Volume	Listing	Report Volume	Part	Page
8	Howey, Marconi, Turner, Seagram, Clary, Demorest & Cotton Tps., Sudbury Dist.			
	Summary of field work, 1969 by H.D. Meyn	MP32		42-45

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Donovan, J. F.	1965	Maple Mountain Sheet	ODM Map P. 301	1"=2 mi.
GSC	1965	Aeromagnetic Map, Pilgrim Creek Sheet	Map 1513G	1"=1 mi.
McIlwaine, W. H., Meyn, H. D., Card, K. D.	1970	Operation Maple Mountain, Smoothwater Lake Area	ODM Map P. 584	1"=1 mi.
Card, K. D., McIlwaine, W. H., Meyn, H. D.	1973	Diamond Lake	ODM GR 106	with 4 maps
Card, K. D., Meyn, H. D.	1973	Solace Lake	ODM Map 2258	1"=1 mi.
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet and Part of Ville-Marie Sheet	OGS Map P. 1514	1: 250,000
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of Gogama-Gowganda Area	OGS Map P. 2481	1: 100,000

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Adlington, R.	1982	Howey Township, Sudbury Data Series	OGS Map P. 2456	1"=1/4 mi.

Note #	NOTES

ADDENDA

CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:

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P3A 5W2

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MAP LEGENDS

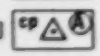
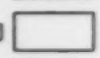
A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 .... of text**

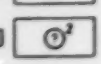
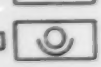
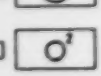
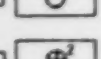
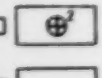
- ■ Reference number is always inside work area outlined. See listing in text pages.
- ☐ Small area of exploration data
- ☐ File covers whole township or area
- ☐

B. EXPLORATION DATA MAP

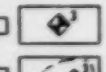
MINERAL OCCURRENCES: See pages 3-1,2... of text

- ☐ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter
- ☐  Mineral occurrence encountered in drilling, with reference letter
- ☐ 

DRILLHOLES: See pages 5-1,2... of text

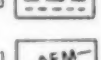
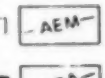
- ☐ Location of single drillhole, with reference number
- ☐ Location of group of closely spaced drillholes, with reference number
- ☐  Drillhole, exact location uncertain, with reference number
- ☐  Property with underground drillholes in this general area, with reference number
- ☐  Property with drillholes which have not been plotted on map, with reference number
- ☐  Reverse circulation drillhole, churn drilling, with reference number
- ☐ 

GEOCHEMICAL: See pages 7-1,2....of text

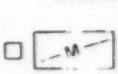
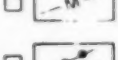
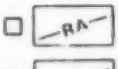
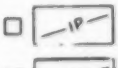
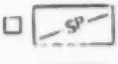
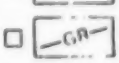
- ☐ Geochemical sample site, with reference number
- ☐  Area of geochemical sampling, with reference number
- ☐

GEOPHYSICAL ANOMALIES

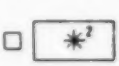
Airborne Surveys: See pages 6-1,2... of text

- ☐ Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly. Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly. Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly. Conductor axis: definite, probable, possible
- ☐  Airborne electromagnetic anomaly. Conductor axis. Location of flight lines uncertain
- ■  Airborne radiometric anomaly

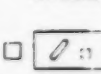
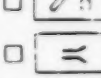
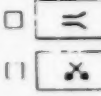
Ground Surveys

- ☐  Ground magnetic anomaly
- ☐  Ground electromagnetic anomaly. (VL: Vertical loop, HL: Horizontal loop, VLF: Very low freq., Turam, JEM - Crone Em 16)
- ☐ Ground radiometric anomaly
- ☐  Induced polarization anomaly
- ☐  Self potential anomaly
- ☐  Audio frequency magnetic anomaly (total intensity)
- ☐ Resistivity anomaly
- ☐ Gravity anomaly
- ☐ 

GEOCHRONOLOGICAL DATA: See page 8 of text

- ☐ Age dating material sampling site, with reference number
- ☐ 

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐  Adit
- ☐  Sand and or gravel pit
- ☐ 
- ☐ Rock quarry
- ☐ Open pit
- ☐

MAPS
NOT
FILMED

CARTES
OMISES